

VMware vSphere: What's New

Delivery Methods

- Instructor-led training
- Live-online training
- Onsite training

Course Duration

- Two days of instructor-led training
- 60% lecture, 40% hands-on lab

Target Audience

- System administrators
- IT managers
- System architects
- People responsible for implementing or managing vSphere environments

Prerequisites

Attendance at one of these VMware vSphere 4 courses:

- Install, Configure, Manage
- Fast Track
- What's New

Or equivalent vSphere 4 administration experience

Pricing

Contact your VMware representative or a VMware Authorized Training Center for pricing information.

More Information

Courses are conveniently scheduled around the world. Go to <http://www.vmware.com/education> to find the class that is right for you.

Onsite training is also available for customers who prefer to bring a VMware Certified Instructor to their own facilities. For more information about onsite classes, including facility requirements, contact <http://www.vmware.com/education>.

Course Overview

This hands-on training course explores new features in VMware vCenter™ Server 5.0 and VMware® ESXi™ 5.0. Topics include VMware vSphere® 5 installation and how to upgrade from vSphere 4.x to vSphere 5.0. vSphere 5.0 is the first version of vSphere to include only the ESXi hypervisor.

Students who complete this course may enroll in any of several advanced vSphere 5.0 courses. See <http://www.vmware.com/education> for advanced course options.

Course Objectives

At the end of the course, you should gain an understanding of the functions and features in vSphere 5.0 and be able to do the following:

- List and describe key enhancements in vSphere 5.0
- Upgrade a deployment from vSphere 4.x to vSphere 5.0
- Use Image Builder to modify and export an image profile as part of Auto Deploy
- Use Auto Deploy to Install a stateless ESXi host
- Manage a version 8 virtual machine with the next-generation Web-based VMware vSphere Client
- List and describe key networking enhancements, including the ESXi firewall and new features in vNetwork distributed switches
- Upgrade and manage a VMware vSphere VMFS5 datastore
- Understand and configure policy-driven storage management
- Create a datastore cluster and configure Storage DRS
- Configure a VMware High Availability cluster based on the new Fault Domain Manager agents
- Use the Linux-based VMware vCenter Server Appliance

Course Modules

<p>1 Course Introduction</p> <ul style="list-style-type: none"> • Introductions and course logistics • Course objectives • Other vSphere 5 learning resources 	<p>5 Storage Management</p> <ul style="list-style-type: none"> • Describe new storage features, including VMFS5, Fibre Channel over Ethernet software adapters, policy-driven storage management and vStorage API for Storage Awareness, solid-state disk support, and VMware vSphere vStorage Appliance • Describe enhanced features, including snapshot support for VMware vSphere Storage vMotion, increased storage performance, and new primitives in the vStorage API for Array Integration • Upgrade VMFS3 to VMFS5 • Create a storage policy
<p>2 Introduction to VMware vSphere 5.0</p> <ul style="list-style-type: none"> • Key enhancements in ESXi, vCenter Server, and VMware vSphere Upgrade Manager • Upgrade vSphere components from vSphere 4.x to vSphere 5.0, including vCenter Server, Update Manager, and ESXi 	<p>6 Scalability</p> <ul style="list-style-type: none"> • Scaling enhancements to resource pools and VMware vSphere vMotion™ • Describe Storage DRS operation • Create a datastore cluster for Storage DRS • Configure Storage DRS
<p>3 Virtual Machine Management</p> <ul style="list-style-type: none"> • Describe new virtual machine version 8 hardware features • Explain virtual machine snapshot consolidation • Describe the vCenter Solutions Manager • Upgrade a virtual machine to version 8 hardware • Install, register, and use the Web-based vSphere Client 	<p>7 High Availability</p> <ul style="list-style-type: none"> • Describe enhancements to the VMware Fault Tolerance and Enhanced vMotion Compatibility features • Describe the operation of VMware HA using the new Fault Domain Manager agents • Create a VMware HA cluster
<p>4 Network Management</p> <ul style="list-style-type: none"> • Describe the ESXi firewall • Describe new features of vNetwork distributed switches including NetFlow, port mirroring, and Link Layer Discovery Protocol • Describe enhancements to network I/O control, including 802.1p priority tagging, user-defined virtual machine resource pools, and the host-based replication traffic pool • Configure the ESXi firewall • Configure and test port mirroring 	<p>8 New VMware vSphere Deployment Alternatives</p> <ul style="list-style-type: none"> • Configure the Linux-based vCenter Server Appliance • Use Image Builder to create an installation image profile • Use Auto Deploy to deploy a stateless ESXi host



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